

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2401GSERIAL NO.
09/030,571LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR *et al.*FILING DATE
February 24, 1998GROUP
1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE	
M	SA	AA	3	9	9	7	2	9	8	12/14/76	McLafferty <i>et al.</i>	23	253	02/27/75
		AB	4	1	3	9	3	4	6	02/13/79	Rabbani	422	56	11/28/77
		AC	4	4	7	3	4	5	2	09/25/84	Cantor <i>et al.</i>	204	458	11/18/82
		AD	4	6	8	3	1	9	4	07/28/87	Saiki <i>et al.</i>	435	6	03/28/85
		AE	4	6	8	3	1	9	5	07/28/87	Mullis <i>et al.</i>	435	6	02/07/86
		AF	4	7	2	5	6	7	7	02/16/88	Köster <i>et al.</i>	536	27	08/10/84
		AG	4	7	2	9	9	4	7	03/08/88	Middendorf <i>et al.</i>	435	6	03/29/84
		AH	4	7	9	7	3	5	5	01/10/89	Stabinsky	435	6	06/13/85
		AI	4	8	0	6	5	4	6	02/21/89	Carrico <i>et al.</i>	536	27	09/30/85
**		AJ	4	8	0	8	5	2	0	02/28/89	Dattagupta <i>et al.</i>	435	6	03/15/85
		AK	4	8	8	2	1	2	7	11/21/89	Rosenthal <i>et al.</i>	422	50	11/12/87
		AL	4	9	4	8	8	8	2	08/14/90	Ruth	536	27	05/04/87
		AM	4	9	5	2	5	1	8	08/28/90	Johnson <i>et al.</i>	436	518	12/28/87
		AN	4	9	9	4	3	7	3	02/19/91	Stavrianopoulos <i>et al.</i>	435	6	07/20/89
		AO	4	9	9	7	9	2	8	03/05/91	Hobbs, Jr.	536	27	09/15/88
		AP	5	0	0	0	9	2	1	03/19/91	Hanaway <i>et al.</i>	422	100	02/08/90
**		AQ	5	0	0	2	8	6	7	03/26/91	Macevicz	435	6	10/24/88
		AR	5	0	0	2	8	6	8	03/26/91	Jacobson <i>et al.</i>	435	6	07/20/88
		AS	5	0	6	4	7	5	4	11/12/91	Mills	435	6	11/13/87
**		AT	5	0	6	8	1	7	6	11/26/91	Vijg <i>et al.</i>	435	6	05/01/89
**		AU	5	0	7	3	4	8	3	12/17/91	Lebacq	435	6	03/24/89
		AV	5	0	7	7	2	1	0	12/31/91	Eigler <i>et al</i>	435	176	01/13/89
		AW	5	0	8	2	9	3	5	01/21/92	Cruikshank	536	27	12/15/88
		AX	5	1	0	6	7	2	7	04/21/92	Hartley <i>et al.</i>	435	6	07/13/90

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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 25491-2401G	SERIAL NO. 09/030,571
	APPLICANT CANTOR <i>et al.</i>	
	FILING DATE February 24, 1998	GROUP 1634

LIST OF PATENTS AND PUBLICATIONS FOR
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
M S/H	AY	5	1	0	8	7	0	3	04/28/92	Pfost <i>et al.</i>	422	65	05/10/91
**	AZ	5	1	1	2	7	3	4	05/92	Kramer <i>et al.</i>	435	6	05/26/89
**	BA	5	1	1	2	7	3	6	05/92	Caldwell <i>et al.</i>	435	6	06/14/89
**	BB	5	1	1	4	8	3	9	05/92	Blocker	435	6	05/26/89
	BC	5	1	1	8	6	0	5	06/02/92	Urdea	435	6	09/29/88
	BD	5	1	1	8	9	3	7	06/02/92	Hillenkamp <i>et al.</i>	250	282	08/21/90
**	BE	5	1	3	7	8	0	6	08/92	Lamaistre <i>et al.</i>	435	6	12/11/89
**	BF	5	1	4	9	6	2	5	09/22/92	Church <i>et al.</i>	435	6	03/28/90
	BG	5	1	7	4	9	6	2	12/29/92	Brennan	422	78	01/24/90
	BH	5	1	8	5	2	4	3	02/09/93	Ullman <i>et al.</i>	435	6	08/25/88
**	BI	5	2	0	2	2	3	1	04/93	Drmanac <i>et al.</i>	435	6	06/18/91
	BJ	5	2	1	0	4	1	2	05/11/93	Levis <i>et al.</i>	250	288	01/31/91
**	BK	5	2	1	9	7	2	6	06/93	Evans	435	6	06/15/93
	BL	5	2	2	1	5	1	8	06/93	Mills	422	62	08/13/91
	BM	5	2	3	7	0	1	6	08/17/93	Ghosh <i>et al.</i>	525	329.4	01/06/89
	BN	5	2	4	0	8	5	9	08/31/93	Aebersold	436	89	08/31/93
	BO	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
	BP	5	2	4	6	8	6	5	09/21/93	Stolowitz	436	89	09/21/93
	BQ	5	2	6	2	1	2	8	11/16/93	Leighton <i>et al.</i>	422	100	10/23/89
	BR	5	2	8	8	6	4	4	02/22/94	Beavis <i>et al.</i>	436	94	11/13/92
	BS	5	3	0	6	6	1	9	04/26/94	Edwards <i>et al.</i>	435	6	06/22/93
	BT	5	3	7	4	5	5	9	12/20/94	Devienne	436	34	12/16/92
	BU	5	3	8	0	8	3	3	01/10/95	Urdea <i>et al.</i>	536	22.1	12/13/91
M	BV	5	3	8	1	0	0	8	01/10/95	Tanner <i>et al.</i>	250	288	05/11/93

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m SA	BW	5	4	1	2	0	8	7	05/02/95	McGall <i>et al.</i>	536	24.3	04/24/92
	BX	5	4	2	4	1	8	6	06/13/95	Fodor <i>et al.</i>	435	6	12/06/91
	BY	5	4	3	0	1	3	6	07/04/95	Urdea <i>et al.</i>	536	243	07/27/90
	BZ	5	4	3	6	3	2	7	07/25/95	Southern <i>et al.</i>	536	25.34	03/20/91
	CA	5	4	7	4	8	9	5	12/12/95	Ishii <i>et al.</i>	435	6	05/13/93
	CB	5	4	7	8	8	9	3	12/26/95	Ghosh <i>et al.</i>	525	329.4	08/05/93
	CC	5	4	8	2	8	3	6	01/09/96	Cantor <i>et al.</i>	435	6	01/14/93
	CD	5	4	8	4	7	0	1	01/16/96	Cocuzza <i>et al.</i>	435	6	01/31/92
	CE	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	CF	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	CG	5	5	1	2	4	3	9	04/30/96	Hornes <i>et al.</i>	435	6	07/06/94
	CH	5	5	1	4	5	4	8	05/07/96	Krebber <i>et al.</i>	435	6	02/17/94
	CI	5	5	2	7	6	8	1	06/18/96	Holmes	435	6	11/05/92
	CJ	5	5	4	1	3	1	3	07/30/96	Ruth	536	24.3	11/09/94
	CK	5	5	4	5	5	3	9	08/13/96	Miller	435	91.2	10/18/94
	CL	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
	CM	5	5	4	7	8	3	5	08/20/96	Koster	435	6	01/06/94
	CN	5	5	4	7	8	3	9	08/20/96	Dower	435	6	12/06/90
	CO	5	5	7	8	4	4	4	11/26/96	Edwards <i>et al.</i>	435	6	12/20/93
	CP	5	6	0	5	6	6	2	02/25/97	Heller	422	68.1	11/01/93
	CQ	5	6	2	4	7	1	1	04/29/97	Sundberg <i>et al.</i>	427	261	04/27/95
	CR	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	06/05/95
	CS	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	01/05/95
	CT	5	6	4	1	9	5	9	06/24/97	Holle <i>et al.</i>	250	287	03/21/96

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W SA	CU	5	6	4	3	7	2	2	07/01/97	Rothschild <i>et al.</i>	435	6	05/11/94
	CV	5	6	5	0	2	7	4	07/1997	Kambara <i>et al.</i>	435	6	06/22/94
	CW	5	6	5	4	5	4	5	08/05/97	Holle <i>et al.</i>	250	287	04/04/96
	CX	5	6	6	3	2	4	2	09/02/92	Ghosh <i>et al.</i>	525	329.4	03/31/95
	CY	5	6	7	0	3	8	1	09/23/97	Jou <i>et al.</i>	436	518	05/08/95
	CZ	5	6	7	7	1	9	5	10/14/97	Winkler <i>et al.</i>	436	518	11/20/92
	DA	5	6	9	3	4	6	3	12/02/97	Edwards <i>et al.</i>	435	6	12/23/92
	DB	5	7	0	0	6	4	2	12/23/97	Monforte	435	6	05/22/95
	DC	5	7	1	6	7	8	0	02/10/98	Edwards <i>et al.</i>	435	6	06/07/95
	DD	5	7	2	6	0	1	4	03/10/98	Edwards <i>et al.</i>	435	6	09/17/93
	DE	5	7	3	8	9	9	0	04/14/98	Edwards <i>et al.</i>	435	6	06/07/95
	DF	5	7	4	4	1	3	1	04/28/98	Edwards <i>et al.</i>	424	8.08	06/07/95
	DG	5	7	4	6	3	7	3	05/05/98	Sanada	239	102.2	02/21/96
	DH	5	7	5	3	4	3	9	05/19/98	Smith <i>et al.</i>	435	6	05/19/95
	DI	5	7	7	0	4	5	6	06/23/98	Holmes	436	518	05/13/96
	DJ	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/09/96
	DK	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93
	DL	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93
	DM	5	8	0	0	9	9	2	09/01/98	Fodor <i>et al.</i>	435	6	06/25/96
	DN	5	8	0	7	5	2	2	09/15/98	Brown <i>et al.</i>	422	50	06/07/95
	DO	5	8	3	0	6	5	5	11/03/98	Monforte <i>et al.</i>	435	6	04/26/96
	DP	5	8	7	1	9	2	8	02/16/99	Fodor <i>et al.</i>	435	6	06/11/97
	DQ	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
	DR	5	9	0	2	7	2	3	05/11/99	Dower <i>et al.</i>	435	6	07/12/96

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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
W/S/L	DS	5	9	2	5	5	2	5		07/20/99	Fodor <i>et al.</i>	435	6	04/03/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
W/S/L	DT	0	3	5	9	2	2	5		03/21/90	EPO				
	DU	0	3	6	0	6	7	6		03/28/90	EPO				
	DV	0	3	6	0	6	7	7		09/18/89	EP				
	DW	0	3	6	0	6	7	7		03/28/90	EP			X*	
	DX	0	3	7	1	4	3	7		06/06/90	EPO				
	DY	0	3	9	2	5	4	6		12/04/90	EP				
	DZ	0	3	9	6	1	1	6		11/07/90	EP				
	EA	0	4	1	2	8	8	3		02/13/91	EP A1			X*	
	EB	0	4	5	5	9	0	5		11/13/91	EP				
	EC	0	4	5	6	3	0	4		11/13/91	EP A1				
	ED	0	6	3	0	9	7	2		12/28/94	EP				
	EE	0	7	0	1	0	0	1		03/13/96	EP A2				
	EF	2	2	1	5	3	9	9		08/28/90	JP			X*	
	EG	3	9	3	0	3	1	2		04/26/90	Germany				
	EH	3	9	3	0	3	1	2		04/26/90	DE			X*	
	EI	4	0	1	1	9	9	1		10/18/90	Germany				
	EJ	4	0	1	1	9	9	1		10/18/90	DE			X*	
	EK	6	2	9	4	7	9	6		10/21/94	JP			X*	
	EL	6	3	2	3	00	8	6		09/26/88	JP			X*	
	EM	8	2	9	0	3	7	7		11/05/96	JP			X*	
	EN	8	9	0	3	4	3	2		04/20/89	PCT				

EXAMINER: *W/S/L* *How* DATE CONSIDERED *9/00*

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													Yes	No
W St	EO	8	9	0	9	2	8	2	10/05/89	PCT				
	EP	8	9	0	9	4	0	6	10/05/89	PCT			X*	
**	EQ	8	9	1	0	9	7	7	11/16/89	PCT				
	ER	9	0	0	1	5	6	4	02/22/90	PCT				
	ES	9	0	0	3	3	8	2	04/05/90	PCT				
	ET	9	0	0	7	5	8	2	07/12/90	PCT				
	EU	9	0	1	5	8	8	3	12/27/90	PCT				
	EV	9	1	0	5	0	6	0	04/18/91	PCT				
	EW	9	1	0	6	6	7	8	05/16/91	PCT				
	EX	9	1	1	1	5	3	3	08/08/91	PCT				
	EY	9	2	0	2	6	3	5	02/20/92	PCT				
	EZ	9	2	0	3	5	7	5	03/05/92	PCT				
	FA	9	2	0	7	8	7	9	05/14/92	PCT				
	FB	9	2	1	0	0	9	2	06/25/92	PCT				
	FC	9	2	1	0	5	8	8	06/25/92	PCT				
	FD	9	2	1	3	6	2	9	08/20/92	PCT				
	FE	9	3	0	6	9	2	5	04/15/93	PCT				
	FF	9	3	0	9	6	6	8	05/27/93	PCT				
	FG	9	4	0	0	1	9	3	06/01/94	PCT				
	FH	9	4	1	1	5	2	9	05/26/94	PCT				
	FI	9	4	1	1	5	3	0	05/26/94	PCT				
	FJ	9	4	1	1	7	3	5	05/26/94	PCT				
	FK	9	4	1	6	1	0	1	07/21/94	PCT				
	FL	9	4	1	6	1	0	1	07/21/94	PCT				

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
SA	FM	9	5	0	4	5	2	4	02/16/95	PCT				
	FN	9	5	0	7	3	6	1	03/16/95	PCT				
	FO	9	5	3	0	7	7	3	11/16/95	PCT				
	FP	9	6	0	2	8	3	6	02/01/96	PCT				
	FQ	9	6	1	9	5	8	7	06/27/96	PCT				
	FR	9	6	2	9	4	3	1	09/26/96	PCT				
	FS	9	6	3	2	5	0	4	10/17/96	PCT				
	FT	9	6	3	6	7	3	1	11/21/96	PCT				
	FU	9	7	1	6	6	9	9	05/09/97	PCT				
	FV	9	7	3	7	0	4	1	10/09/97	PCT				
	FW	9	7	4	2	3	4	8	11/13/97	PCT				
	FX	9	7	4	3	6	1	7	11/20/97	PCT				
	FY	9	8	2	0	0	1	9	05/14/98	PCT				
	FZ	9	8	2	0	0	1	9	05/14/98	PCT				
	GA	9	8	2	0	0	2	0	05/14/98	PCT				
	GB	9	8	2	0	0	2	0	05/14/98	PCT				
	GC	9	8	2	0	1	6	6	05/14/98	PCT				
	GD	9	8	2	0	1	6	6	05/14/98	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SA	GE	Agrawal <i>et al.</i> , Efficient methods for attaching non-radioactive labels to the 5' ends of synthetic oligodeoxyribonucleotides, <u>Nucleic Acids Res.</u> 14:6227-6245 (1986)
	GF	Alderton <i>et al.</i> , Magnetic bead purification of M13 DNA sequencing templates, <u>Anal. Biochem.</u> 201:166-169 (1992)
	GG	Argarana <i>et al.</i> , Molecular cloning and nucleotide sequence of the streptavidin gene, <u>Nuc Acids Res.</u> 14(4):1871-1882 (1986)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

r/S	GH	Arrand, Preparation of nucleic acid probes, <u>Nucleic Acid Hybridisation, A Practical Approach</u> , Chapter 2, pp. 17-44 (1985)
	GI	Arshady, Reza; Review: Beaded Polymer Supports and Gels, I. Manufacturing Techniques; <u>Journal of Chromatography</u> , 586 (1991); pp.181-197
	GJ	Arshady, Reza; Review: Beaded Polymer Supports and Gels, II. Physico-Chemical Criteria and Functionalization; <u>Journal of Chromatography</u> , 586 (1991); pp.199-219
	GK	Axelrod <i>et al.</i> , Transcription from bacteriophage T7 and SP6 RNA polymerase promoters in the presence of 3'-deoxyribonucleoside 5'-thiophosphate chain terminators, <u>Biochemistry</u> 24:5716-5723 (1985)
	GL	Bains, Setting a sequence to sequence a sequence, <u>Bio/Tech</u> 10:757-758 (1992)
	GM	Bains, W., Hybridization methods for DNA sequencing, <u>Genomics</u> 11:294-301 (1991)
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT CANTOR <i>et al.</i>	
	FILING DATE February 24, 1998	GROUP 1634

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m 5/4	LU	Sano, T., and Cantor, C.R., A streptavidin-protein a chimera that allows one-step production of a variety of specific antibody conjugates, <u>Bio/Technology</u> 9:1378-81 (1991)
	LV	Sano T and Cantor CR, Expression vectors for streptavidin-containing chimeric proteins, <u>Biochem and Biophys Res Comm.</u> 176:571-577 (1991)
	LW	Schneider K <i>et al.</i> , Increased stability of nucleic acids containing 7-deaza-guanosine and 7-deaza-adenosine may enable rapid DNA sequencing by matrix-assisted laser desorption spectroscopy, <u>Nucleic Acids Res.</u> 23(9):1570-75 (1995)
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	MA	Sequenom Uses DNA MassArray™ to Sequence Section of Human Cancer-Related p53 Gene", Press Release: Mar. 27, 1998, http://www.sequenom.com/pressrelease.htm .
	MB	Sequenom Advances the Industrial Genomics Revolution with the Launch of Its DNA MassArray™ Automated Process Line, Press Release: Sept. 28, 1998, http://www.sequenom.com/pressrelease.htm .
	MC	Sequenom Reports DNA MassArray™ Technology More Sensitive Than Electrophoretic Methods in Detecting Gene Mutations: Automated DNA Analysis System Can Speed Up Microsatellite Analyses, Press Release: Dec. 15, 1997, http://www.sequenom.com/pressrelease.htm .
	MD	Shaler <i>et al.</i> , Effect of Impurities on the matrix-assisted laser desorption mass spectra of single-stranded oligodeoxynucleotides, <u>Anal. Chem.</u> 68:576-579 (1996).
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m	MF	Sinha <i>et al.</i> , β -cyanoethyl N, N-dialkylamino/N-morpholinomono-chloro phosphoramidites, new phosphorylating agents facilitating ease of deprotection and work-up of synthesized oligonucleotides, <u>Tetrahedron Lett.</u> 24:5843-5846 (1983).

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17/ SH	MG	Sinha <i>et al.</i> , Polymer support oligonucleotides synthesis AVIII: use of β -cyanoethyl-N,N-dialkylamino-In-morpholino phosphoramidite of deoxynucleosides for the synthesis of FNA fragments simplifying deprotection and isolation of the final product, <i>Nuc Acids Res</i> 12(11):4539-4558 (1984)
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	MJ	Smith CL <i>et al.</i> , Preparation and manipulation of large DNA molecules: advances and applications, <i>TIBS</i> 12:284 (1987)
	MK	Smith CL <i>et al.</i> , Evolving strategies for making physical maps of mammalian chromosomes, <i>Genome</i> 31:1055 (1989)
	ML	Smith <i>et al.</i> , Fluorescence detection in automated DNA sequence analysis, <i>Nature</i> Vol. 321, 674-679 (1986)
**	MM	Southern, E.M., Analyzing and comparing nucleic acid sequences by hybridization to arrays of oligonucleotides: evaluation using experimental models, <i>Genomics</i> 13:1008-1017 (1992)
	MN	Sowa <i>et al.</i> , The facile synthesis of 5'-nucleotides by the selective phosphorylation of a primary hydroxyl group of nucleosides with phosphoryl chloride, <i>Bulletin of the Chemical Society of Japan</i> 48(7):2084-2090 (1975)
	MO	Sproat <i>et al.</i> , 2'-O-methyloligoribonucleotides: synthesis and applications, <i>Oligonucleotides and Analogues: A Practical Approach</i> (Eckstein, F. ed.) IRL Press, Oxford, pp. 49-86 (1991)
	MP	Sproat <i>et al.</i> , The synthesis of protected 5'-mercapto-2',5'-dideoxyribonucleoside-3')-phosphoramidites; uses of 5'-mercapto-oligodeoxyribonucleotides, <i>Nuc Acids Res</i> 15(12):4837-4848 (1987)
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m	MR	Stahl <i>et al.</i> , Solid Phase DNA Sequencing using the Biotin-Avidin System, <i>Nucleic Acids Research</i> , vol. 16, No. 7, pp. 3024-3039 (1988)

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M SH	MS	Still <i>et al.</i> , Rapid chromatographic technique for preparative separations with moderate resolution, <i>J. Org. Chem.</i> 43(14):2923-2925 (1978)
	MT	Stratagene Catalog, p. 39 (1988)
**	MU	Stratagene Catalog, Synthetic Oligonucleotides, p. 106 (1992)
**	MV	Strezoska, <i>et al.</i> , "DNA sequencing by hybridization: 100 bases read by a non-gel-based method", <i>Proc. Natl. Acad. Sci. USA</i> 88:10089-10093 (1991).
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	NA	Verheyden <i>et al.</i> , Synthesis of some pyrimidine 2'-amino-2'-deoxynucleosides, <i>J. Org. Chem.</i> 36(2):250-254 (1971)
	NB	Wahlberg <i>et al.</i> , Rapid detection and sequencing of specific in vitro amplified DNA sequences using solid phase methods, <i>Mol. Cell. Probes</i> 4(4):285-297 (1990)
	NC	Wang, Solid phase synthesis of protected peptides via photolytic cleavage of the α -methylphenacyl ester anchoring linkage, <i>J. Org. Chem.</i> 41(20):3258-3261 (1976)
	ND	Wetmur, DNA probes: applications of the principles of nucleic acid hybridization, <i>Critical Rev in Biochem and Molec Biol</i> 26(3/4):227-259 (1991)
	NE	Zhu Y <i>et al.</i> , DNA sequence analysis of human chromosome 21 not I linking clones, <i>Genomics</i> 18(2):199-25 (1993)
	NF	Zimmermann <i>et al.</i> , Automated preparation and purification of M13 templates for DNA sequencing, <i>Meth. Mol. Cell. Biol.</i> 1:29-34 (1989)
NG		Zuckermann <i>et al.</i> , Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides, <i>Nucleic Acids Research</i> , 15:13, 5305-5321 (1987).

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